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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,097	02/15/2002	Soo Chang Chang	041501-5494	9123

9629 7590 08:08:2003 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW

WASHINGTON, DC 20004

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EXAMINER

MCDONALD, RODNEY GLENN

ART UNIT PAPER NUMBER

1753

DATE MAILED: 08/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

	Application No.	Applicant(s)	
, `	10/076,097	CHANG, SOO CHANG	
Office Action Summary	Examin r	Art Unit	
	Rodney G McDonald	1753	
Th MAILING DATE of this communication ap Period for Reply	p ars on the cover she t with th	corr spond nc addr ss	
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE MO	NTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3° CFR 1.  after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above, the maximum statutory period  Failure to reply within the set or extended period for reply will, by statut  Any reply received by the Office latert has there months after the mailin  earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be t sly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fro c, cause the application to become ABANDON	imely filed  ys will be considered timely in the mailing date of this communication.  ED (35 U.S. C § 133)	
1) Responsive to communication(s) filed on 29	<u>May 2003</u> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ TI	his action is non-final.		
Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims			
4) Claim(s) 1-16 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)⊠ Claim(s) <u>1-16</u> is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on is/are: a)□ acce			
Applicant may not request that any objection to the		, ,	
11) The proposed drawing correction filed on		oved by the Examiner.	
If approved, corrected drawings are required in re			
12) The oath or declaration is objected to by the Ex	kaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(	a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1.⊠ Certified copies of the priority document			
2. Certified copies of the priority document			
Copies of the certified copies of the prio application from the International Bu     See the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).	-	
14) Acknowledgment is made of a claim for domest	·		
a)   The translation of the foreign language pro	ovisional application has been re-	ceived.	
15) Acknowledgment is made of a claim for domest Attachment(s)	nc prionty under 35 U.S.C. §§ 12	u and/or 121.	
	a □ 1-1	(DTO 440) D	
) Notice of References Cited (PTO-892) ) Notice of Draftsperson's Patent Drawing Review (PTO-948) ) Information Disciosure Statement(s) (PTO-1449) Paper No(s)		y (PTO-413) Paper No(s) Patent Application (PTO-152)	

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### DETAILED ACTION

# Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the plurality of electromagnets formed having different geometrical group cell patterns on the fixed plate as required by claim 1 must be shown, the group cell patterns including triangular, pentagonal, and hexagonal array pattern of claims 4 and 5, the group cell pattern disposed along an outer perimeter of the fixed plate and a second group cell pattern disposed within a center portion of the fixed plate as required by claims 9 and 13, and the geometrical group cell patterns including a first group cell pattern disposed along even-numbered rows, and a second group cell pattern disposed along odd-numbered rows must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. (It should be noted that the Brief Description of the Drawings should be amended to include description of newly added figures.)

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

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The specification does not provide proper antecedent basis for the combination of different cell patterns where the cell patterns are triangular, pentagonal and hexagonal. (It should be noted that original claims 4 and 5 provided support for such as possibility).

## Allowable Subject Matter

Claims 1-16 allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-16 are indicated as being allowable over the prior art of record because the prior art of record does not teach a plurality of electromagnets having different geometrical patterns on a fixed plate on a side of a sputtering target.

### Response to Arguments

Applicant's arguments filed 5-29-03 have been fully considered but they are not persuasive.

Applicant's arguments have been considered. As discussed above the prior art does not suggest a plurality of electromagnets having different geometrical patterns on a fixed plate on a side of a sputtering target. New objections have been raised with regards to the drawings and specification. The examiner awaits Applicant's response to the new objections.

This action is made NON-Final based on the new objections.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 703-308-3807. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 703-308-3322. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9310 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Rodney G. McDonald Primary Examiner Art Unit 1753

Chalon Hir Soul

RM August 6, 2003